

WHAT IS CLAIMED IS:

1. An audio/video (AV) stream processing system comprising:

a receiving unit which receives an AV stream comprising a content information field and a content field, the content information field comprising first copy control information, and the content field comprising second copy control information;

a determination unit which determines whether the first and the second copy control information are different; and

a decryption unit which processes the AV stream according to at least one of the first and second copy control information when the first and the second copy control information are the same and stops processing the AV stream when the first and the second copy control information are different.

2. The system according to claim 1, wherein the determination unit determines whether a first copy control mode information of the first copy control information and a second copy control mode of the second copy control information are different.

3. The system according to claim 1, wherein:

each of the first and the second copy control information comprises a copy control mode of a content of the AV stream, and

the copy control mode comprises one of a first mode in which the content is encrypted and copying of the content is prohibited, a second mode in which the content is encrypted and a one time copying of the content is allowed, the second mode being changed to the first mode after the one time copying, a third mode in which the content is encrypted and unrestricted copying of the content is allowed, and a fourth mode in which the content is not encrypted and unrestricted copying of the content is allowed.

4. The system as claimed in claim 3, wherein the decryption unit comprises:

a key generating unit which generates a decryption key for decrypting the content;

a content interpreting unit which decrypts the content using the decryption key to generate a decrypted content; and

a control unit which controls the key generating unit and the content interpreting unit to stop generating the decryption key or stop decrypting the content, when the first and the second copy control information are different, and, when the first and the second copy control information are the same, controls the key generating unit and the content interpreting unit according to the copy control mode.

5. The system as claimed in claim 4, further comprising a storage unit which stores the decrypted content or the content.

6. The system according to claim 4, wherein the key generating unit generates the decryption key using information comprising the second copy control information.

7. The system according to claim 3, wherein the determining unit comprises:

a storage unit which stores the first copy control information; and

a comparator unit which compares the copy control mode of the first copy control information with the copy control mode of the second copy control information.

8. The system as claimed in claim 3, wherein the decryption unit comprises:

a key generating unit which generates a decryption key;

a content interpreting unit which decrypts the content; and

a control unit which outputs a control signal corresponding to the copy control mode when the first and the second copy control information are the

same, and generates a stop signal when the first and the second copy control information are different or the control signal corresponds to the first mode, wherein the control unit outputs the stop signal to the key generating unit when the AV stream is not being played and outputs the stop signal to the content interpreting unit when the AV stream is being played, wherein

the key generating unit generates a decryption key for decrypting the content in response to the control signal corresponding to one of the second and third mode, and stops generating the decryption key in response to the stop signal; and

the content interpreting unit which decrypts the content using the decryption key, outputs the content, in response to the control signal corresponding to the fourth mode, and stops decrypting the content in response to the stop signal.

9. An audio/video (AV) stream processing system comprising:

means for receiving an AV stream comprising a content information field and a content field;

means for processing the AV stream; and

means for determining whether copy control information of the content information field has been modified.

10. The system according to claim 9, wherein the means for processing stops processing the AV stream when the copy control information has been modified.

11. An audio/video (AV) stream processing system comprising:

means for receiving an AV stream comprising a content information field and a content field, wherein the content information field comprises first copy control information, and the content field comprises second copy control information;

means for processing the AV stream; and

means for determining whether the first and the second copy control information are different.

12. An audio/video (AV) stream processing method comprising:

receiving an AV stream comprising a content information field and a content field, wherein the content information field comprises first copy control information, and the content field comprises second copy control information;

determining whether the first and the second copy control information are different, in a determination; and

processing the AV stream based on the determination.

13. The method according to claim 12, wherein the determining whether the first and the second copy control information are different comprises determining whether a first copy control mode information of the first copy control information and a second copy control mode information of the second copy control information are different.

14. The method according to claim 12, wherein the processing the AV stream comprises processing the AV stream according to copy control mode information when the first and the second copy control information are the same and terminating a decrypting of a content of the AV stream when the first and the second copy control information are different.

15. The method according to claim 12, wherein, when the first and the second copy control information are different, the processing the AV stream comprises terminating a decrypting of a content of the AV stream when the AV stream is being played, or terminating a generating of a decryption key for decrypting the content of the AV stream when the AV stream is not being played.

16. An audio/video (AV) stream processing method comprising:

receiving an AV stream comprising a content information field and a content field, wherein the content information field comprises first copy control information, and the content field comprises second copy control information;

first determining whether the first and the second copy control information are different, in a determination;

second determining whether the AV stream is to be processed based on the determination; and

displaying a message indicating that processing the AV stream is prohibited when the first and the second copy control information are different.

17. A computer-readable medium comprising computer-executable instructions for performing the operations recited in claim 12.

18. An audio/video (AV) stream processing method comprising:

receiving an AV stream comprising a content information field and a content field;

determining whether copy control information of the content information field has been modified, in a determination; and

processing the AV stream based on the determination.

19. The method according to claim 18, wherein the processing the AV stream comprises terminating the processing of the AV stream when the copy control information has been modified.

20. A computer-readable medium comprising computer-executable instructions for performing the operations recited in claim 18.

21. An audio/video (AV) stream processing method comprising:
receiving an AV stream comprising a content information field and a content field, wherein the content information field comprises first copy control information, and the content field comprises second copy control information;

determining whether the first and the second copy control information are different to prevent an unauthorized processing of the AV stream, in a determination; and

processing the AV stream based on the determination.

22. A computer-readable medium comprising computer-executable instructions for performing the operations recited in claim 21.

23. An audio/video (AV) stream processing method comprising:

receiving an AV stream comprising a content information field and a content field, wherein the content information field comprises first copy control information, and the content field comprises second copy control information;

comparing the first copy control information with the second copy control information; and

when the first and the second copy control information are different, terminating a processing of the AV stream.

24. A computer-readable medium comprising computer-executable instructions for performing the operations recited in claim 23.

25. An audio/video (AV) stream processing method comprising:

receiving an AV stream comprising a content information field and a content field, wherein the content information field comprises first copy control information, and the content field comprises second copy control information;

determining whether the first copy control information has been modified when compared to the second copy control information, in a determination; and

processing the AV stream based on the determination.

26. A computer-readable medium comprising computer-executable instructions for performing the operations recited in claim 25.

27. A method for copy control in processing an audio/video (AV) stream comprising a content information field and a content field, the method comprising:

extracting copy control information of the content information field and copy control information of the content field from the AV stream; and

determining whether the copy control information of the content information field and the copy control information of the content field are different.

28. The method according to claim 27, wherein the determining comprises determining whether first copy control mode information and second copy control mode information, corresponding to a content of the AV

stream, of the first and the second copy control information, respectively, are different to prevent an unauthorized processing of the AV stream.

29. A computer-readable medium comprising computer-executable instructions for performing the operations recited in claim 27.

30. A method for copy control in processing an audio/video (AV) stream, the method comprising:

extracting copy control information from a content information field of the AV stream; and

determining whether the control information has been modified.

31. The method according to claim 30, wherein the determining comprises determining whether the copy control information of the content information field has been modified when compared to copy control information of a content field of the AV stream, to prevent an unauthorized processing of the AV stream.

32. A computer-readable medium comprising computer-executable instructions for performing the operations recited in claim 30.

33. A method for copy control in processing an audio/video (AV) stream comprising a content information field and a content field, the method comprising:

extracting copy control information of the content information field and copy control information of the content field from the AV stream; and

comparing the copy control information of the content information field and the copy control information of the content field to determine whether the copy control information of the content information field and the copy control information of the content field are different.

34. A computer-readable medium comprising computer-executable instructions for performing the operations recited in claim 33.